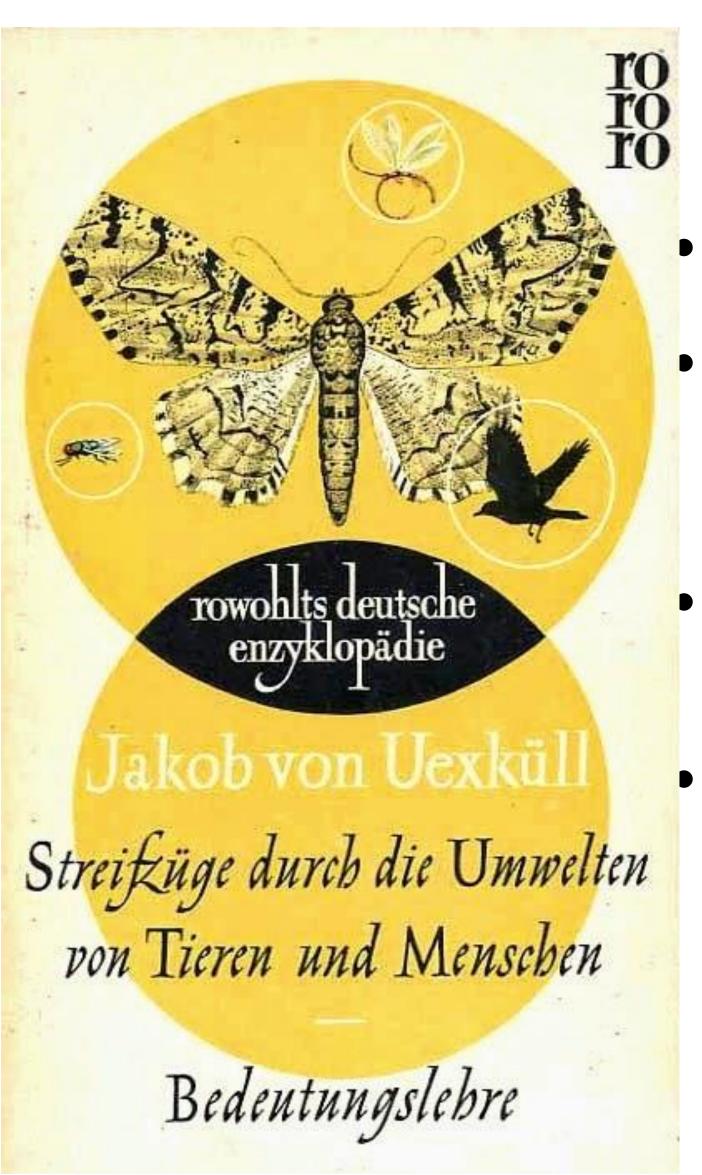






Uexküll's definition of umwelt



- Umwelt is "the phenomenal world or the self-world of the animal."
- "all that a subject perceives becomes his perceptual world and all that he does, his effector world. Perceptual and effector worlds together form a closed unit, the umwelt."
- there is like a "a soap bubble around each creature to represent its own world, filled with the perceptions which it alone knows."
- "the soap bubble [...] encloses each of us as well. [...] individual soap bubbles, which intersect each other smoothly, [...] are built up of subjective perceptual signs. There is no space independent of subjects."

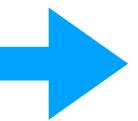
since then –

important developments have taken place in semiotics:

- (a) under the influence of biosemiotics, the *concept of umwelt* has become commonly used in semiotics (being added to the concept of sign in the theory of semiotics), however variously defined
- (b) while the focus of structuralism was codes and invariances in semiotic systems,
- (c) poststructuralism has dealt with the aspects of change and impermanence, openness of interpretations;
- (d) but now (in the ecological era), ecosemiotics has emerged, and the *importance* of the stabilizing aspect of semiotic processes has emerged again

From Funktionskreis to Gestaltkreis

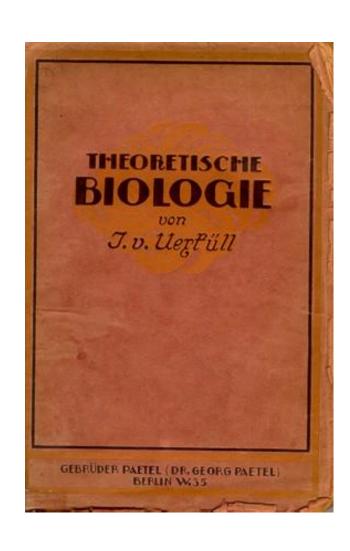
functional circle gestalt circle

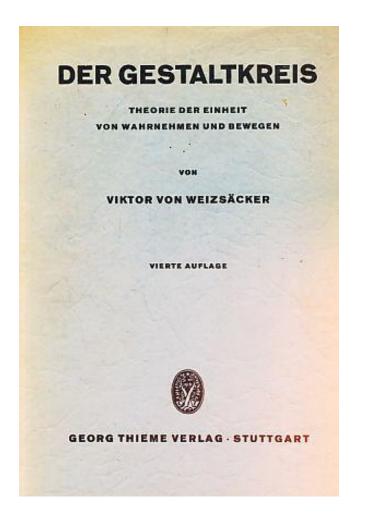


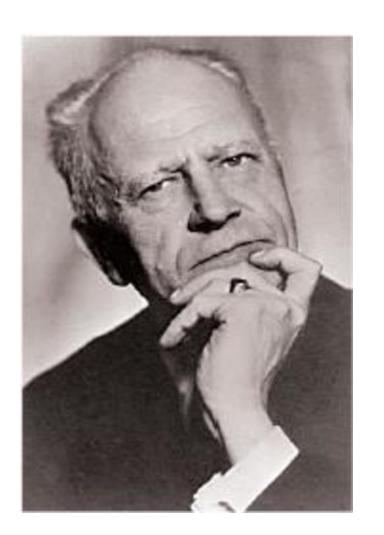
Jakob von Uexküll (1864-1944)

Viktor von Weizsäcker (1886-1957)







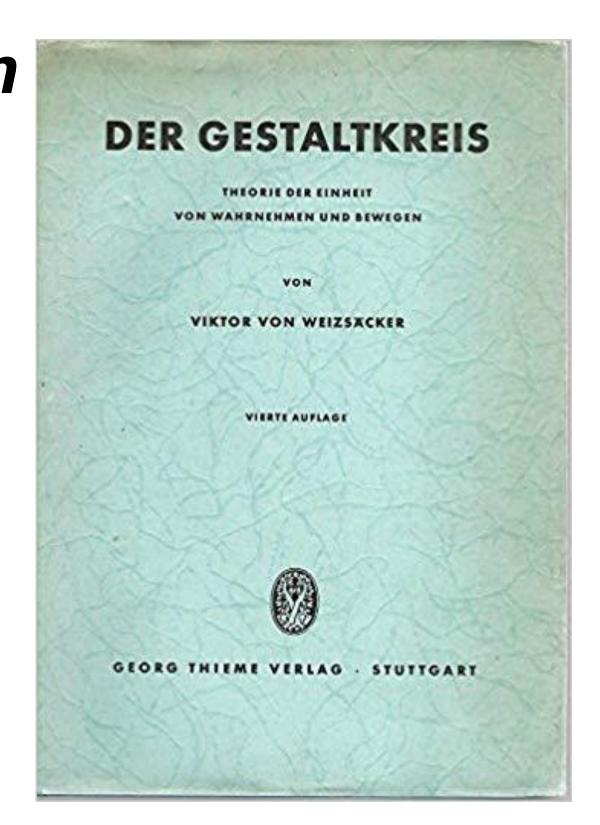


"Life is not a sequence of cause and effect, but *choice*."

Viktor von Weizsäcker

"Der Gestaltkreis: Theorie der Einheit von Wahrnehmen und Bewegen" (1940: 126) ["The Gestalt-circle: theory of the unity of perception and movement"]

"Gestalt und Zeit" (1942). ["Gestalt and Time"]



Uexküll, Jakob 1928. Theoretische Biologie.

Die zeitliche Umgrenzung der Umwelten:

- "Wenn man die Umwelt eines Tieres in einem bestimmten Moment als Kreis darstellt, so kann man jeden darauffolgenden Moment als einen neuen Umweltkreis hinzufügen."
- "Ein Lebewesen besitzt grundsätzlich eine Zeitgestalt."

"Having an intrinsic now is a peculiar form of temporality shared by all living forms." (Eliseo Fernández 2010)



umwelt

 physico-chemical characteristics influencing organism momentary distinctions made by organism the whole library of organism's habits

umwelt

(bio)physical

 physico-chemical characteristics influencing organism

(bio)semiotic

 momentary distinctions made by organism the whole library of organism's habits

umwelt

(bio)physical

- physico-chemical characteristics influencing organism
- butyric acid; temperature; (but no air vibrations)

biophysical umwelt

(bio)semiotic

- momentary distinctions made by organism
- smell; warmth; (but no sound)

momentary umwelt (phenomenal)

 the whole library of organism's habits

 falling if smelling 'butyric acid'; boring into the skin if it feels warm

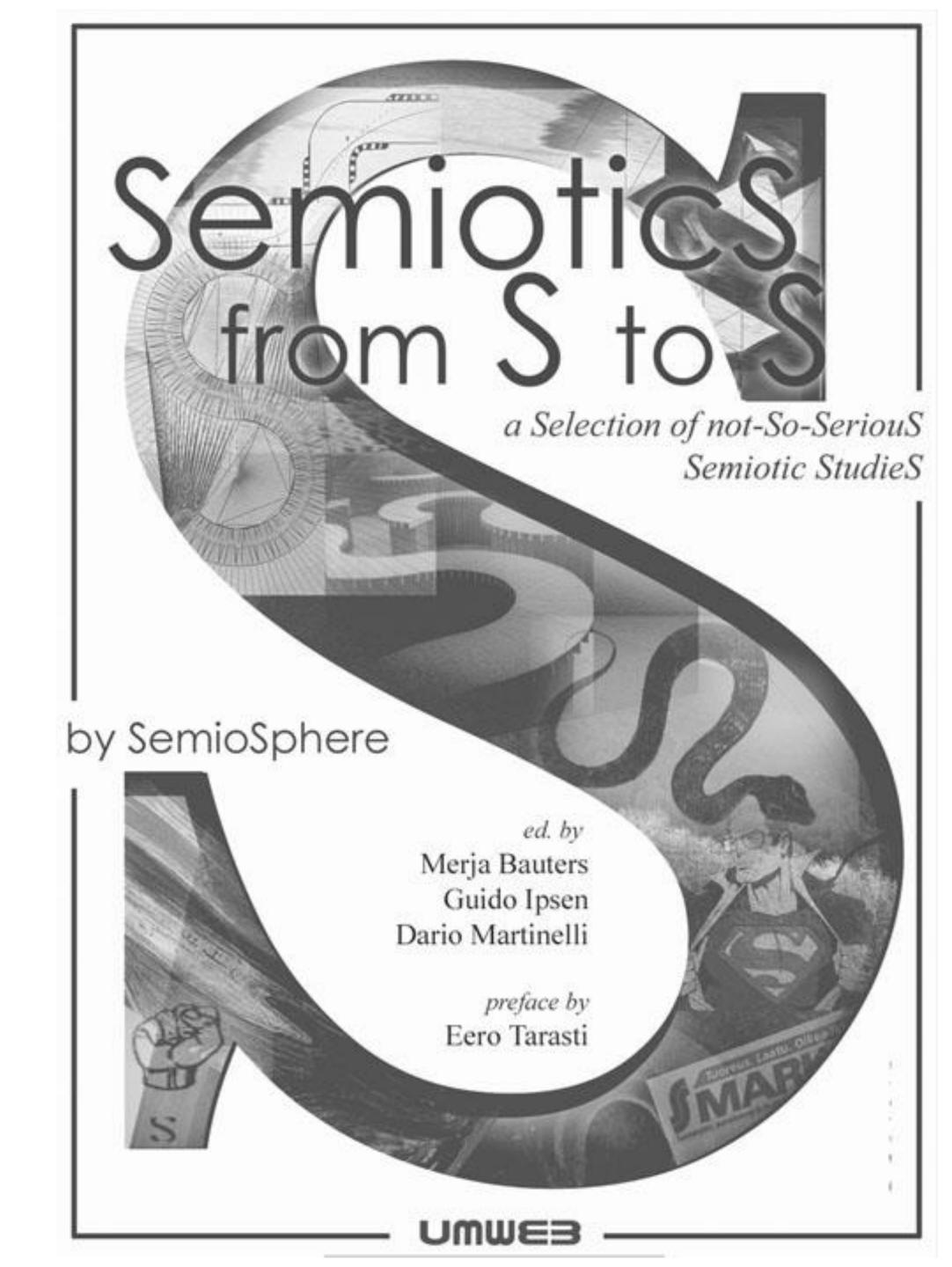
umweb

umwelt = the content of Now
 the complex of distinctions at the present

umweb = the library of somebody's habits (sign relations)
series of correspondences

umweb term





2004

Semiotic (arbitrary) correspondences

no meaning-making

code

one-way mapping sequential, determined; coding

no momentary alternatives

sequential feedback cycle

habit

two-way mapping, code-duality

circular, indeterminate; interpretation possibilities for momentary alternatives

two coupled functional circles in simultaneity

with meaning-making

Umwelt, umweb, and other similar concepts

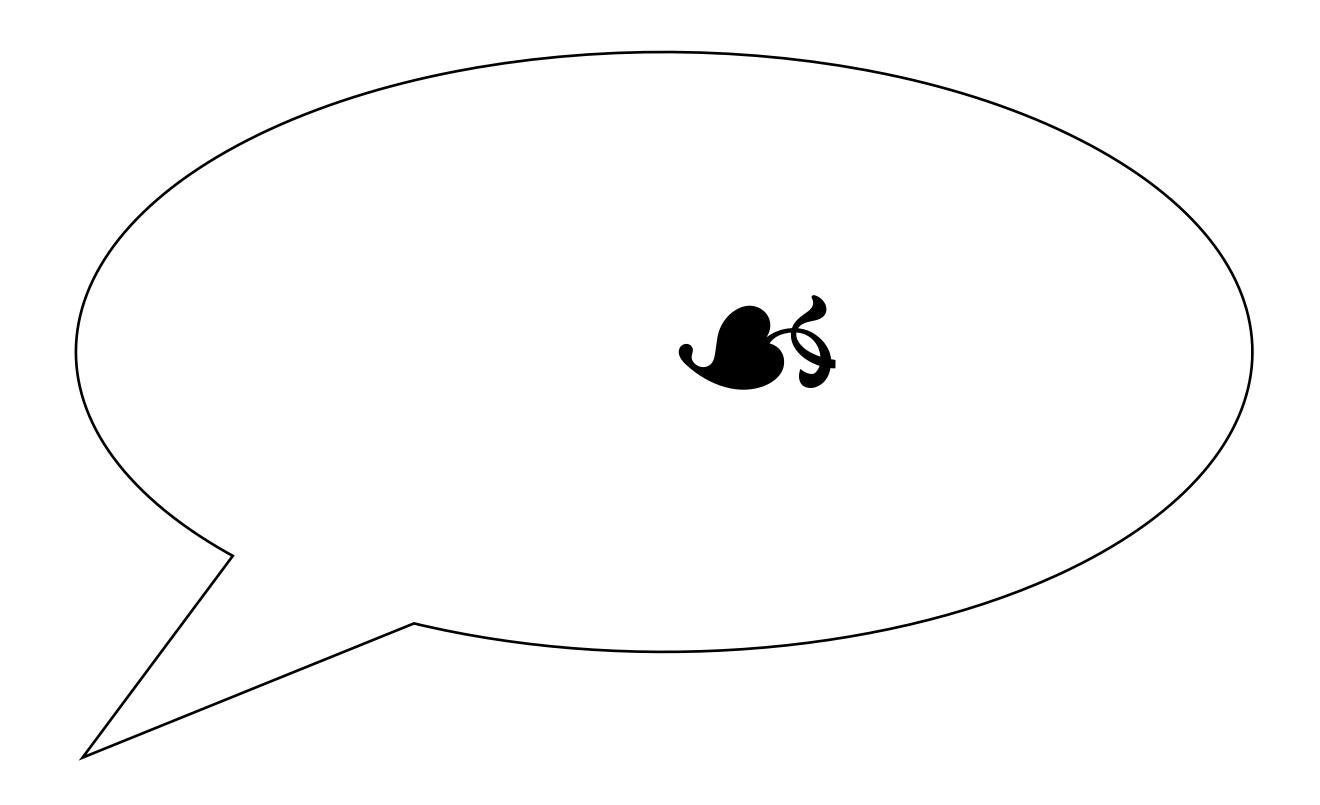
umwelt – subjective world of organism; the world with meanings

- momentary umwelt the field of meanings in the subjective present (fast; semantic)
- umweb distributed umwelt; the web of meaning relations or habits over the course of time (slow; pragmatic)

- umwelt tunnel sequence of organism's subjective moments during its ontogeny (Uexküll)
- semiosphere meaning-relations of all agents, thus being a cover term (Lotman)
- actor-network material-semiotic network of agents (Latour)
- chronotope spacetime of a narrative (Ukhtomsky, Bakhtin)
- biological act as Gestalt-circle (Weizsäcker)

the sign cannot be anywhere but in the umwelt

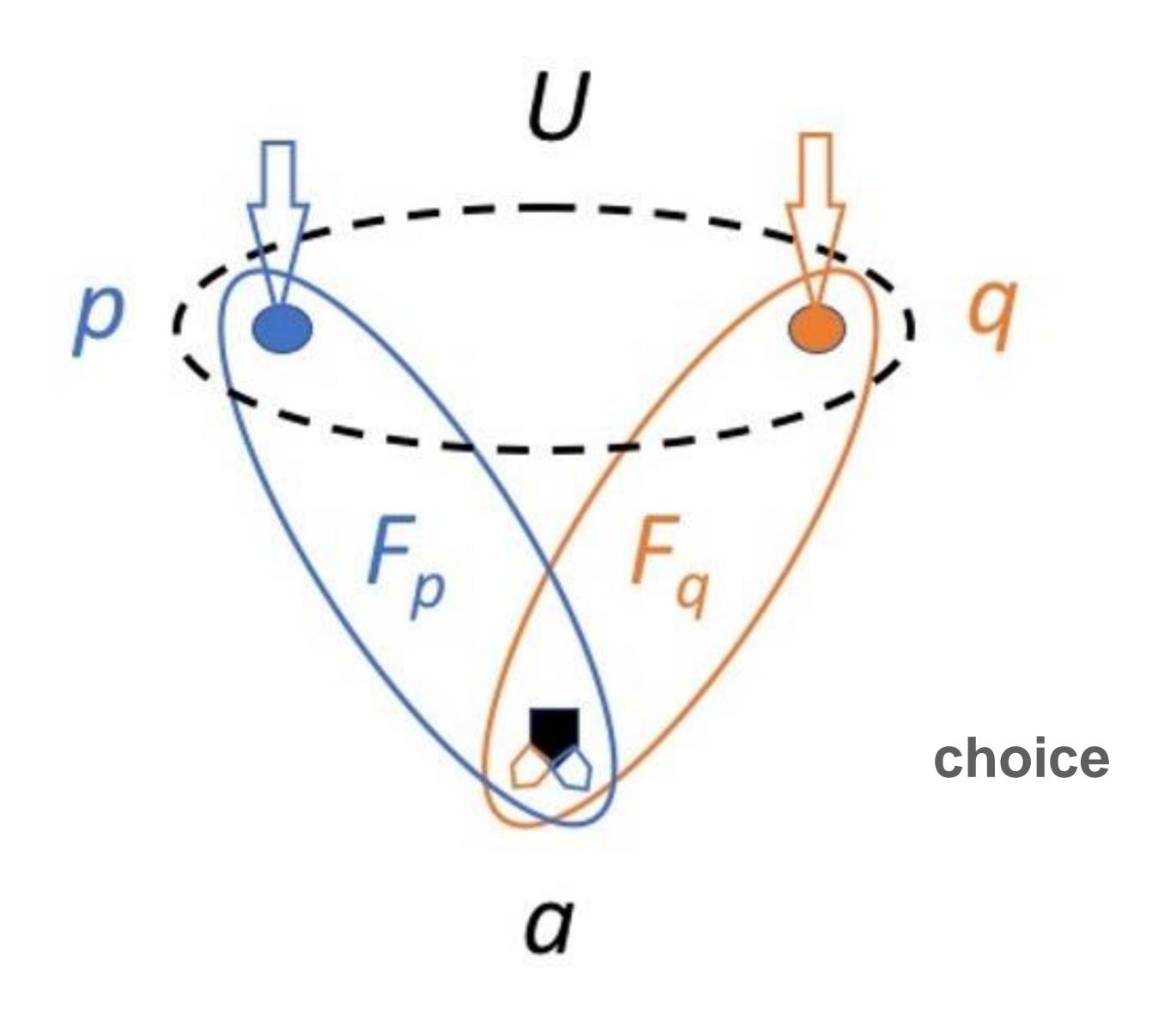
A sign cannot be without an umwelt, and an umwelt without a sign



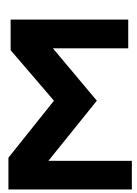
the minimal meaning-making system

umwelt

innenwelt



- 1. Umwelt: three different concepts
- 2. Umwelt is Now, umweb is always
- 3. Habit is not a code
- 4. > umwelt-based general semiotics
- 5. > umweb-based general biology



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Thank you!